

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S206	542	703/8.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 14:32

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L1	298	genetic and (vibration same (damp\$3 or suppress\$4))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:10
L2	278	(vibration same (damp\$3 or suppress\$4)) and (vehicle or automobile) and (finite adj element)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:45

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Optimal placement of piezoelectric sensors and ... - Han - Cited by 81

Optimal design of robust **vibration suppression** ... - Itoh - Cited by 9

Optimal Design of Robust **Vibration Suppression** Controller Using ...

been verified by experiments using a prototype. Index Terms—Synthesis, **genetic** algorithms (GAs), robust control, **vibration suppression**. I. I. INTRODUCTION ...

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by K Itoh - 2004 - Cited by 9 - Related articles

Welcome to IEEE Xplore 2.0: Optimal design of robust **vibration** ...

Oct 4, 2004 ... Optimal design of robust **vibration suppression** controller using **genetic** algorithms. Itoh, K. Iwasaki, M. Matsui, N. Dept. of Comput. Sci. ...

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Optimization and **vibration suppression** of adaptive composite ...

Optimization and **vibration suppression** of adaptive composite panels using **genetic** algorithm and disturbance observer technique. [Proceedings of SPIE 5049, ...

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... of the PZT sensor and actuator in order to reduce the structural **vibration**. ... on **genetic** algorithm to improve the effect on the **vibration suppression**. ...

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A coevolutionary **genetic** search strategy is employed to ensure that design changes ...
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dynamically between the rigid mode tracking and **vibration suppression**. ...

books.google.com/books?isbn=3540406034...

Optimum placement of piezoelectric ceramic modules for vibration ...

The **vibration suppression** efficiency of so-called shunted piezoelectric ..., apply **genetic**
algorithms to the problem of optimal actuators ...

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Design of **vibration suppression** systems in space trusses using a **genetic** algorithm

J Bishop - AIAA/ASME/ASCE/AHS/ASC Structures, Structural ..., 1996 - csa.com

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Vibration suppression in a two-mass drive system using PI speed controller and additional ...

K Szabat, T Orłowska-Kowalska - IEEE Transactions on Industrial Electronics, 2007 - ieeexplore.ieee.org

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JA Bishop, AG Striz - Proceedings of the 1996 37th AIAA/ASME/ASCE/AHS/ASC ...

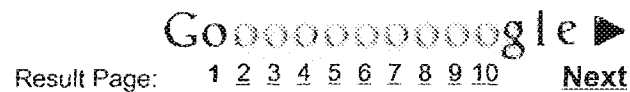
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Damage detection in vibrating bodies using genetic algorithms

MA Rao, J Srinivas, BSN Murthy - Computers and Structures, 2004 - Elsevier

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... (sexual behavior/fate mapping/gynandromorphs/behavioral **genetics**) ... Male performance of following females and displaying wing **vibration** toward them requires that ...

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algorithm ...

AJ Keane, SM Brown - Proceedings of the Conference on Adaptive Computing ... - Citeseer
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Q Lu, G Shen, R Yu - Journal of Computational Chemistry, 2002 - interscience.wiley.com

... **Genetic** training of network using chaos concept: Application to QSAR studies of **vibration** modes of tetrahedral halides. Qingzhang ...

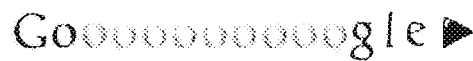

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algorithms, optimization, robust control, **vibration suppression**. ...

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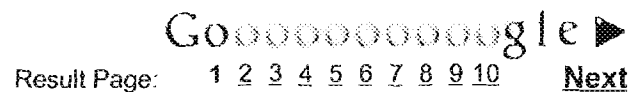
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Closed-loop pole design for vibration suppression

M Papadopoulos, E Garcia - Journal of Guidance, Control, and Dynamics, 1997 - pdf.aiaa.org

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... 44, 96-102 Marcelin, J.-L.; Trompette, P. 1994: Optimal location of plate **damped** parts by use of a **genetic** algorithm. Shock and **Vibration** 1, 541-547 Marcelin, 8 ...

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S Jain, PY Peng, A Tzes, F Khorrami - Journal of Intelligent and Robotic Systems, 1996 - Springer

... algorithms. Key words. Neural network control, **genetic** learning, flexible-link manipulators, **vibration damping**. 1. Introduction ...

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Genetic algorithms applied to fuzzy sliding mode controller design- ► [psu.edu](#) [PDF]

KC Ng, Y Li, DJ Murray-Smith, KC Sharman - Genetic Algorithms in Engineering Systems: Innovations ..., 1995 - [ieeexplore.ieee.org](#)

... imprecision and external disturbances while the KC provides better **damping** and reduced ...

This paper develops **genetic** algorithms (GAS) for the automatic design of ...

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... because of the lack of atmospheric **damping** and the ... 3] which were used to form the vibration control problem ... manipulation of this model by **Genetic** Algorithms [4 ...

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M Moshrefi-Torbati, AJ Keane, SJ Elliott, MJ ... - Journal of Sound and Vibration, 2003 - Elsevier

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HYV Scholar, Y Takahashi, K Katayama, T ... - Journal of Vibration and Acoustics, 2001 - link.aip.org

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JL Marcelin, P Trompette, R Dornberger - Structural and Multidisciplinary Optimization, 1995 - Springer

... **Vibration** control is a major design problem for skis. ... materials in order to maximize a modal **damping** factor ... It is shown here how **genetic** algorithms offer a new ...

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[CITATION] **Optimization of sandwich/multilayer viscoelastic composite structure for vibration damping**

MA Trindade - Proceedings of OMAE, 2001

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Design of vibration suppression systems in space trusses using a genetic algorithm

J Bishop - AIAA/ASME/ASCE/AHS/ASC Structures, Structural ..., 1996 - csa.com

Design of vibration suppression systems in space trusses using ... space structures, some system for damping the resulting ... A genetic algorithm is used in each case ...

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Passive vibration suppression of flexible space structures via optimal geometric redesign-

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PB Nair, AJ Keane - AIAA Journal, 2001 - pdf.aiaa.org

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Double-walled damping structure - US Patent 6708626 Description

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[book] Introduction to finite element vibration analysis

M Petyt - 1998 - books.google.com

... 8 considers the equations for free vibration of an ... The presentation is designed to give the finite element user an ... Methods of representing damping are discussed ...

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► plym.ac.uk [PDF]

JMW Brownjohn, P Moyo, P Omenzetter, Y Lu - *Journal of Bridge Engineering*, 2003 - link.aip.org

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...
X Lei, NA Noda - *Journal of Sound and Vibration*, 2002 - Elsevier

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Design Sensitivity Analysis of Noise, Vibration, and Harshness of Vehicle Body Structure*

S Wang - *Mechanics Based Design of Structures and Machines*, 1999 - informaworld.com

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Component mode synthesis of a vehicle structural-acoustic system model

SH Sung, DJ Nefske - *AIAA journal*, 1986 - pdf.aiaa.org

... To complete the model, damping of the vehicle body modes and compartment ... structural modal damping was inferred from the measured vibration response of a ...

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J Lee, DJ Thompson, HH Yoo, JM Lee - *International Journal of Vehicle Design*, 2000 - Inderscience

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DA Crolla, AM Lang - **Vehicle Tribology: Proceedings of the 17th Leeds-Lyon ...**, 1991 - books.google.com
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a **vibration** forced by ... the effect of suspension and **vehicle body** dynamics on ...
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... -span non-uniform bridges under moving vehicles and trains by using modified beam vibration ... - Full Text@IngentaConnect

YK Cheung, FTK Au, DY Zheng, YS Cheng - **Journal of sound and Vibration**, 1999 - Elsevier
... All the dofs associated with the car **body** within each substructure ... The **vibration**
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M Fafard, M Bennur, M Savard - Engineering Computations, 1997 - emeraldinsight.com

... and theoretical research on highway-bridge **vibration** has been ... This is known as Rayleigh **damping** and is given by ... assumed that the mass of the **vehicle body** can be ...

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Dynamic interaction between a lumped mass **vehicle** and a discretely supported continuous ...

W Zhai, Z Cai - Computers and Structures, 1997 - Elsevier

... x_0) $k=1,2,\dots,K$ (15) **damping** and stiffness ... at high Interaction between a train **vehicle** and rail ... G. F. Raymond, Fundamentals of track **vibration** and dynamic ...

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SH Kim, JM Lee, MH Sung - Journal of Sound and **Vibration**, 1999 - Elsevier

... ANSYS, ABAQUS, in which **vibration** response of ... Furthermore, various **damping** elements render the acoustic ... of numerical analysis for the **vehicle** noise problem. ...

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Vertical **vibration** analysis of **vehicle/imperfect** track systems

TH Young, CY Li - **Vehicle System Dynamics**, 2003 - informaworld.com

... is a major source of **vibration** excitation ... of practically important imperfections in the **vehicle/track** system ... by giving zero elastic and **damping** coefficients for ...

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GA Borlase, N Vlahopoulos - Finite Elements in Analysis & Design, 2000 - Elsevier

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Impact study of cable-stayed railway bridges with random rail irregularities

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... Structural **vibration** transmission in a **vehicle body** will depend ... variations in plate thickness, material properties, joint configurations or applied **damping**. ...

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Shape optimization of a **vehicle** hat-shelf improving acoustic properties for different load ...

S Marburg, HJ Hardtke - Computers and Structures, 2001 - Elsevier

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HS Kim, HJ Yim, CB Kim - *International Journal of Automotive Technology*, 2002 - [society.kisti.re.kr](#)

... or $m=1, \hat{1}, N_k$) are the modal **damping** factor and the ... durability of critical areas

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